

District heating valves

Control and regulating valves for district heating



☑ Pressure independent control valve, screwed

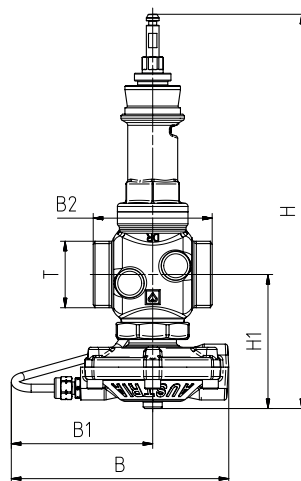
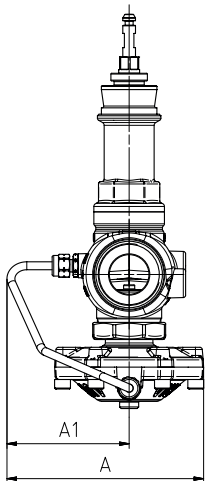
The combination valves are intended for installation in the primary side of district heating transfer stations. The pressure-independent control and regulating valve is a combination of a control and regulating valve with a differential pressure regulator. The desired flow rate is set by turning the valve spindle, which determines the maximum stroke of the control valve. Settings between 20 % and 80 % of the nominal flow are recommended.

☑ Material

Body	Brass
Diaphragm housing	Brass
Diaphragm	EPDM
O-Rings	EPDM
Pressure spring	Steel
Impulse line	Copper Cu-DHP
Pin	Stainless steel

☑ Technical data

Max. operating pressure	25 bar
Max. differential pressure at the housing	DN 15 - DN 25: 20 bar, DN 32 - DN 50: 16 bar
Min. operating temperature	2 °C (pure water)
Max. permissible operating temperature	150 °C
Valve characteristic	Linear characteristic



☑ Data and dimensions

Order number	DN	T		A	A1	B	B1	B2	H	H1
D H406 20	15LF	G 3/4"	flat sealing	131	85	135	87	65	231	84
D H406 29	15MF	G 3/4"		131	85	135	87	65	231	84
D H406 21	15SF	G 3/4"		131	85	135	87	65	231	84
D H406 22	20	G1"		131	85	133	85	70	249	84
D H406 23	25	G1 1/4"		131	85	137	89	75	249	84
D H406 24	32	G 1 3/4"		131	85	138	90	100	271	102
D H406 25	40	G 2"		131	85	130	82	110	271	102
D H406 26	50	G 2 1/2"		131	85	130	82	130	263	102

☑ Pressure independent control valve in flange design

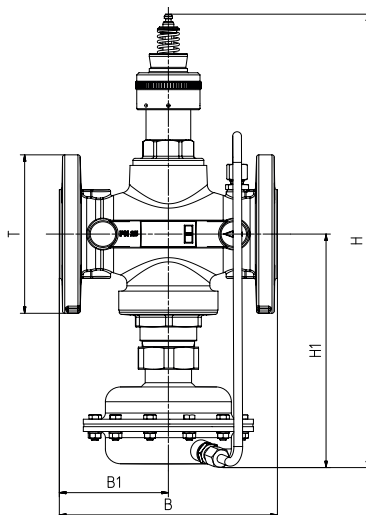
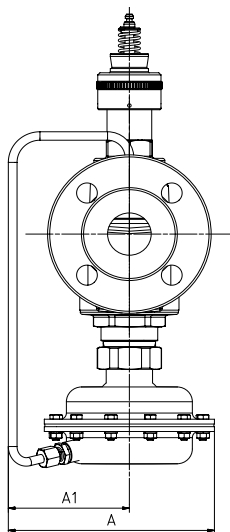
The combination valves in flange design are intended for installation in the primary side of district heating transfer stations. The pressure-independent control and regulating valve is a combination of a control and regulating valve with a differential pressure regulator. The desired flow rate is set by turning the valve spindle, which determines the maximum stroke of the control valve. Settings between 20 % and 80 % of the nominal flow are recommended.

☑ Material

Body	EN-GJS-400-18-LT
Sealing material	EPDM
Cone, spindle, seat	Brass, stainless steel, stainless steel
Impulse line	Stainless steel
Membrane	EPDM

☑ Technical data

Max. operating pressure	DN 32 - DN 65: 25 bar, DN 80 - DN 100: 16 bar
Max. differential pressure at the housing	DN 32 - DN 65: 20 bar, DN 80 - DN 100: 15 bar
Min. operating temperature	2 °C
Max. permissible operating temperature	150 °C
Valve characteristic	Equal percentage characteristic
Connection	Flanged (EN 1092-2)



☑ Data and dimensions

Order number	DN	PN	T	A	A1	B	B1	H	H1
D H406 60	32	25	140	182	104	180	90	429	220
D H406 61	40	25	150	189	111	200	100	430	222
D H406 62	50	25	165	194	112	230	115	427	218
D H406 63	65	25	185	300	163	290	145	610	360
D H406 64	80	25	200	310	173	310	155	660	400
D H406 65	100	25	234	320	183	350	175	700	425

☑ HERZ 2-port valves, pressure balanced, screwed

The balanced 2-port valves are designed for many years of trouble-free operation in district heating, water heating with water heaters, heating, ventilation and air conditioning systems. Cold, warm and hot water in the temperature range from 2 °C to 150 °C can be used as the flow medium. The valve characteristic is equal-percentage.

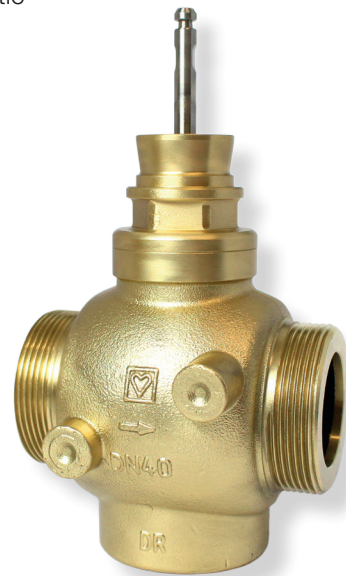
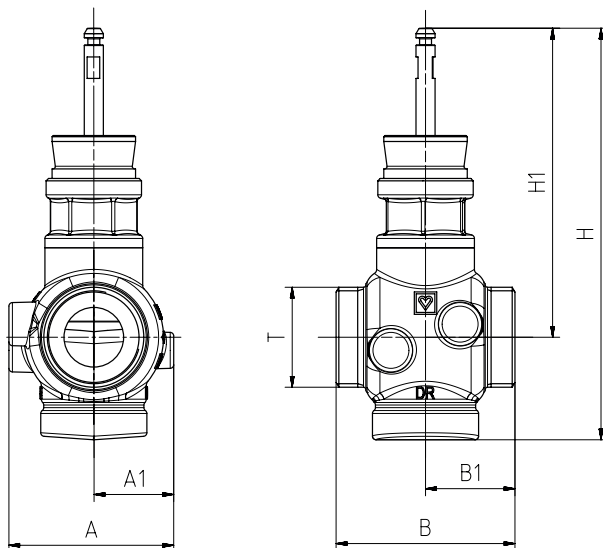
Design: When the spindle is pulled out, the valve is open. When the spindle is pressed down, the valve is closed.

☑ Material

Body	Brass
Sealing material	EPDM
Valve seat	Brass
Valve cone material	Brass
Spindle	Stainless steel

☑ Technical data

Max. operating pressure	25 bar
Max. differential pressure at the housing	2 bar
Min. operating temperature	2 °C (pure water); - 20 °C (antifreeze)
Max. permissible operating temperature	150 °C
Valve characteristic	Equal percentage characteristic



☑ Data and dimensions

Order number	DN	PN	Max. temp., °C	T		A, mm	A1, mm	B, mm	B1, mm	H, mm	H1, mm
D H035 31	15	25	150	G ¾"	flat sealing	59	27	65	33	155	120
D H035 32	20	25	150	G 1"		66	31	70	35	173	130
D H035 33	25	25	150	G 1 ¼"		69	33	75	38	173	130
D H035 34	32	25	150	G 1 ¾"		85	41	100	50	195	140
D H035 35	40	25	150	G 2"		97	45	110	55	196	139
D H035 36	50	25	150	G 2 ½"		99	47	130	65	197	139

☑ HERZ 2-port valves, balanced, flanged

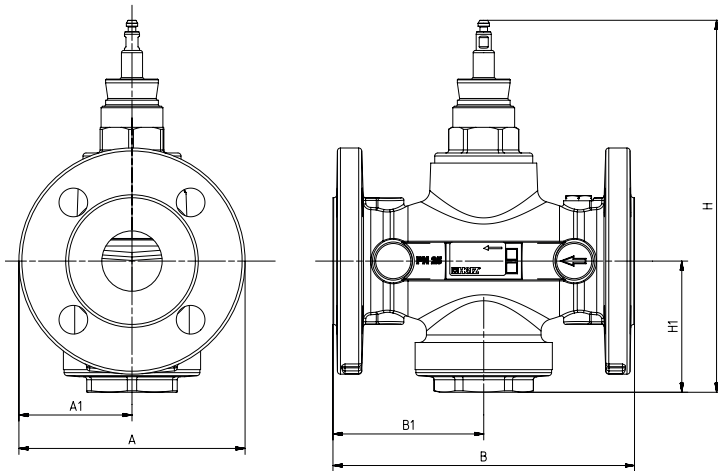
The balanced 2-port flange valve is primarily used to control the volume flow in district heating and HVAC systems. It can also be used for opening and closing pipes. Cold, warm and hot water in the temperature range from 2 °C to 150 °C can be used as the flow medium. The balanced 2-port flanged valve can be used in almost all heating, ventilation and air-conditioning systems as well as in industrial and technological processes. The valve characteristic is equal-percentage. The selection of the 2-port flanged valve is made by means of the kvs values. PN25 and PN16 version: When the spindle is pulled out, the valve is open. When the spindle is pressed down, the valve is closed.

☑ Material

Housing for PN16	EN-GJL-250 (EN 1561)
Housing for PN25	EN-GJS-400-18-LT (EN 1563)
Sealing material	EPDM
Valve seat	Stainless steel
Valve plug material (PN 25 and PN16)	Stainless steel
Spindle	Stainless steel

☑ Technical data

Max. operating pressure	DN 32 - DN 65: 25 bar, DN 80 - DN 100: 16 bar
Max. differential pressure at the housing	2 bar
Min. operating temperature	2 °C
Max. permissible operating temperature	150 °C
Valve characteristic	Equal percentage characteristic
Connection	Flanged (EN 1092-2)



☑ Data and dimensions

Order number	DN	PN	A, mm	A1, mm	B, mm	B1, mm	H, mm	H1, mm	m, kg
D H035 14	32	25	140	70	180	90	247	86	11
D H035 15	40	25	150	75	200	100	247	87	13
D H035 16	50	25	165	83	230	115	248	90	15
D H035 17	65	25	185	93	295	148	354	115	28
D H035 18	80	16	200	100	310	155	398	105	36
D H035 19	100	16	220	110	350	175	420	127	51

☑ HERZ differential pressure regulator with adjustable pressure control range (50-150 kPa)

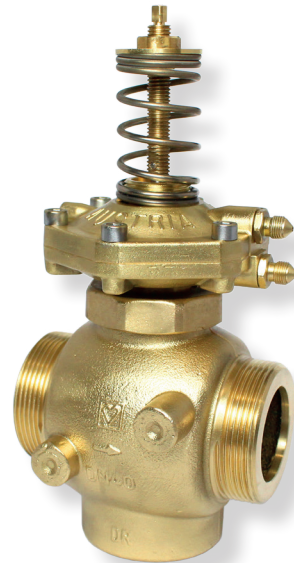
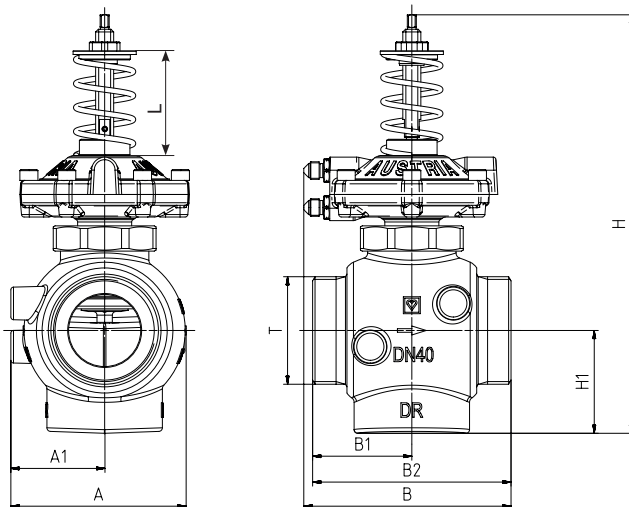
For the primary side of district heating transfer stations to ensure a constant differential pressure over the control range. The differential pressure controller is a straight-seat controller and operates without auxiliary power. The desired differential pressure setpoint can be adjusted between 50 kPa and 150 kPa. The set value can be read off with the help of the setting diagram. Two impulse lines are included in the scope of delivery, these are to be installed in the flow and return.

☑ Material

Body	Brass
Valve stem	Stainless steel
Regulator connection nut	Brass
O-Ringe	EPDM
Einstellspindel	Brass
Druckfeder	Spring steel
Anschlussnippel	Brass
Membrane	EPDM
Membrangehäuse	Brass

☑ Technical data

Max. operating pressure	25 bar
Max. differential pressure at the housing	20 bar
Min. operating temperature	2 °C (pure water); - 20 °C (antifreeze)
Max. permissible operating temperature	150 °C
Control range	50 - 150 kPa



☑ Data and dimensions

Order number	DN	PN	Max. temp., °C	T, Zoll		A, mm	A1, mm	B, mm	B1, mm	B1, mm	C, mm	H, mm	H1, mm
D H402 21	15	25	150	G ¾"	flat sealing	59	32	107	33	65	94	193	35
D H402 22	20	25	150	G 1"		66	36	107	35	70	94	201	43
D H402 23	25	25	150	G 1 ¼"		69	36	107	38	75	94	201	43
D H402 24	32	25	150	G 1 ¾"		85	44	110	50	100	94	231	54
D H402 25	40	25	150	G 2"		97	52	115	55	110	94	231	54
D H402 26	50	25	150	G 2 ½"		99	52	130	65	130	94	231	57

☑ HERZ differential pressure regulator for district heating in flange design 50-150 kPa

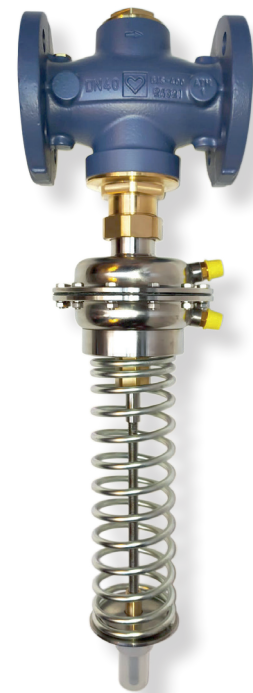
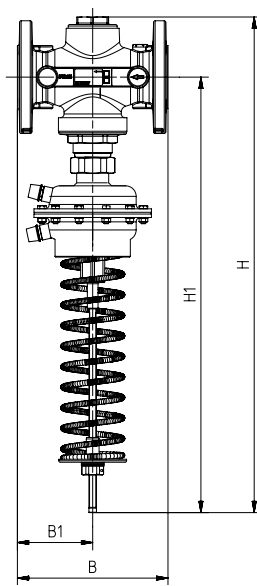
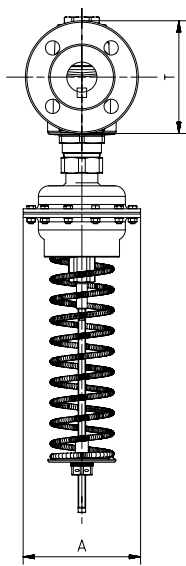
The differential pressure regulator is a regulator that works without auxiliary energy. The desired differential pressure setpoint can be adjusted continuously between 50 and 150 kPa. Two impulse lines are included and must be connected in the flow and return pipework.

☑ Material

Connection	Flanged (EN 1092-2: 2005)
Housing for PN16	EN-GJL-250 (EN 1561)
Housing for PN25	EN-GJS-400-18-LT (EN 1563)
O-Ring	EPDM
Spindle	Stainless steel
Membrane	EPDM with fabric
Pressure spring	EN 10270-1-SH

☑ Technical data

Max. operating pressure	DN 32 - DN 65: 25 bar, DN 80 - DN 100: 16 bar
Max. differential pressure	DN 32 - DN 65: 20 bar, DN 80 - DN 100: 15 bar
Min. operating temperature	2 °C
Max. permissible operating temperature	150 °C
Control range	50 - 150 kPa



☑ Data and dimensions

Order number	DN	PN	dp, kPa	T, mm	A, mm	B, mm	B1, mm	H, mm	H1, mm	kvs, m ³ /h	m, kg
D H407 14	32	25	50 - 150	140	156	180	90	660	579	20	11
D H407 15	40	25		150	156	200	100	660	580	25	13
D H407 16	50	25		165	165	230	115	660	580	40	15
D H407 17	65	25		185	185	290	145	672	580	50	28
D H407 18	80	16		200	200	310	155	866	740	80	36
D H407 19	100	16		220	220	350	175	903	763	125	51

 HERZ Armaturen GesmbH - Wien

 Herz Armaturen Ges.m.b.H.

 herz.armaturen

 Herz Armaturen Ges.m.b.H.



HERZ Armaturen Ges.m.b.H.

Richard-Strauss-Straße 22, 1230 Wien, Österreich

T: +43 1 616 26 31-0, F: +43 1 616 26 31-227

E-Mail: office@herz.eu

www.herz.eu

